

Quick Facts

About... Adenovirus

What is adenovirus?

Adenoviruses most commonly cause respiratory illness, such as the common cold, bronchitis, and pneumonia. They may also cause other illnesses, such as gastroenteritis, eye infections, bladder inflammation, and rash illness. Severe illnesses can occur in newborn or elderly patients or in patients with underlying medical conditions, but infection is generally not life-threatening in otherwise healthy adults. Some strains of adenoviruses may cause more severe illness than others strains. Patients with weakened immune systems are especially susceptible to severe complications of adenovirus infection.

How are adenoviruses transmitted?

Adenoviruses are transmitted in different ways depending on the type of infection. Adenoviruses that cause respiratory and eye infections are transmitted by contact with secretions from an infected persons eyes, nose, or mouth. Adenoviruses that cause gastroenteritis are transmitted by contact with an infected person's feces (stool).

What are the symptoms?

Symptoms of adenoviral respiratory infections include common cold symptoms such as runny nose, sinus congestion, sore throat, and cough. Symptoms of lower respiratory infections may include shortness of breath, wheezing, chest pain, and fever. Symptoms of gastroenteritis may include vomiting, diarrhea, and abdominal cramps. Symptoms of adenoviral infection usually occur 3-5 days after exposure.

What makes the A14 strain described in the news media different?

There are 51 types of adenoviruses that can cause human infections. The A14 strain was first identified to cause respiratory disease in military recruits in Europe in 1969 but was not very common. In 2007, this strain was found to cause many cases of illness in the U.S., with some of them being very severe.

How did this strain emerge?

Viruses naturally mutate (change) as they multiply and are transmitted from one person to another. Different strains circulate at different times based on movements of people and people's immunity to these different strains.

How do I know if I have an adenoviral infection?

See your health care provider. Your health care provider may order laboratory tests to determine if you have an adenoviral infection.

How are adenoviral infections treated?

Most infections are mild, require no specific therapy, and eventually resolve on their own. Treatment focuses on relieving the symptoms. Serious adenovirus illnesses are managed by treating symptoms and complications of the infection. Several antiviral drugs, including ribavirin, vidarabine, and cidofovir, have been used to treat serious adenoviral infections, such as those caused by strain A14, but none have been very effective.

How are adenoviral infections prevented?

Since no vaccine exists for adenoviral infections, strict attention to good handwashing and respiratory etiquette are essential. Frequently and thoroughly wash hands, especially if you are ill or caring for others who are ill. Cough or sneeze into your upper sleeve, and discard used tissues promptly. Stay home if you are ill, and children who are ill should not attend school or child care. Proper sleep and nutrition practices are also important.

Control of adenovirus outbreaks can be challenging because these viruses can be shed in both respiratory secretions and feces and can persist for weeks on environmental surfaces. Proper handwashing and disinfection of commonly touched surfaces should be practiced at all times.

For more information, please visit the CDC website located at:

<http://www.cdc.gov/ncidod/dvrd/revb/respiratory/eadfeat.htm>

Adenovirus is not a reportable disease in Indiana and is not included in the Communicable Disease Report

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